IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kirk Emil APT, et al..

Group Art Unit: 1645

Application Number:

09/839,536

Examiner: To Be Assigned

Filed:

April 23, 2001

April 23, 2001

For:

TROPHIC CONVERSION OF OBLIGATE PHOTOTROPHIC ALGAE THROUGH

METABOLIC ENGINEERING

## SUBMISSION OF SUBSTITUTE SEQUENCE LISTING

Box Sequence Commissioner for Patents Washington, D.C. 20231

May 29, 2002

Sir:

In response to the Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures, Applicants herewith submit herewith a corrected computer readable "Sequence Listing" on CD-Rom, stored using MS Windows 2000 operating system in a file entitled "09-839536," occupying 1.68 KB stored on May 28, 2002.

The undersigned certifies his belief that the Sequence Listing information recorded in computer readable form is identical to the written (on compact disc) Sequence Listing submitted herewith.

It is believed that no fees are required for this submission; however, the Commissioner is authorized to charge any fee necessary for entry of this paper to Deposit Account 50-1640.

Respectfully submitted,

BROBECK, PHIEGER & HARRISON LI

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